Abdel-Latif,A.A. 259 Abraham,E.C. 213 Ahmad,M. 35 Anderson,J.A. 739 Araullo-Cruz,T. 267 Arne,J.-L. 719 Asbell,P.A. 25 Atalla,L.R. 927, 1009 Atef,M.S.E. 1031 Atherton,S.S. s69, s75, s81, 667 Augusteyn,R.C. 113 Aymard,M. s151 Azuma,M. 657

Baehr, W. s63

Bardenstein, D.S. 479 Barka, T. 25 Barron, B.A. s105 Barros, F. 731 Bausher, L.P. 399 Bazan, H.E.P. 19, 1031 Bazan, N.G. 19, 593 Begley, C.G. 1015 Belmonte, C. 731 Benedict-Smith, A. s183 Benjamin, W.J. 493 Bennett D I 1075 Bergstrom, R.A. 1069 Berk, R.S. 351 Berman, M. 381 Bernal, D.L. 645 Binder, P.S. 739 Biscardi, J.S. 1121 Bleicher, P.A. 761 Block, T. s1 Bocquet, X. 205 Bodor, N. 565, 933 Boltz, R.L. 493 Boney, F. 1129 Boney, R.S. 1137 Bora, N.S. 363 Boulton, M. 513 Bourassa, S. 493 Bradley, D. s69 Brady, K. s183 Braquet, P. 19 Brash, A. 331 Breebaart, A.C. 773 Brennan, M. 1089 Bromberg, B.B. 1075 Brown, A.E. 877 Buechi, E.R. s171 Bundgaard, H. 87 Bureau, J. 585 Burns, M.S. 801 Buur.A. 87

Caldwell, R. B. 1081 Cammarata, P. R. 321 Campochiaro, P. A. 811 Candia, O. A. 197 Cantin, E. M. s15 Carney, L. G. 939 Casselman, J. 471 Chakrabarti, B. 1065 Chan, C. -C. 679 Chan, M. F. 127 Chandler, C. 61 Chang, C. -W. 1081 Chang, I. L. 1101 Char, D. H. 479 Chalier, J. 205 Chastel, C. s189 Chattopadhyay, D. 1065 Cheeks, L. 305 Chen, A. 373 Chen, J. s15 Chen, P. 547 Chien, D.-S. 127, 571 Church, R.L. 35 Chu, T.-C. 197 Coca-Prados, M. 731 Colin I s189 Collum, L.M.T. s183 Cornicelli, J.A. 1101 Courtois, Y. 719 Cousins, S.W. 287, 667 Cripps, M.M. 1075 Crook, R.B. 593 Cullen, A.P. 177 Cutarelli, P.E. 557 Cyr, D.E. 11

Dacus, A.C. 1175 David, L.L. 11, 657 Dawson, C.R. s23, s105 de Kozak, Y. 993 De Clercq, E. s139, s193 De Vries, J.P. 169 DeBacker, C.M. 537 Defoe, D.M. 1081 Del Vecchio, P.J. 919 Del Monte, M.A. 241, 1089 Delahunty, T.M. 811 Denis, J. s151 Deshmane, S.L. s1 Devamanoharan, P.S. 831 Dharma,S. 1031 DiMattio, J. 959 Dodge, J. 977 Dorman-Pease, M.E. 877 Druzgala, P. 933

Edelhauser, H. F. 145 Edward, D. P. 47 Edwards, R. B. 241 Eguchi, G. 1 Eichhorn, M. 277, 437 Eisenstein, R. 157 El-Ghatit, A. 381 Ellis, W. G. 601 Elner, S. G. 1101 Elner, V. M. 1101 Emmons, T. 865 Epstein, D. L. 373 Essner, E. 1059 Eysteinsson, T. 513

Dutt, K. 1089

Fabre, E.J. 585 Farahat, H.G. 249 Fardeau, C. s151 Faucett, C. s167 Faure, J.-P. 993 Feghali, J.G. 205 Feld, L.G. 339, 893 Ferguson, T.A. 363 Fitting, P. s171 FitzGerald, P.G. 417, 471 Font, R.L. s63 Fraser, N.W. s1 Friedman, Z. 811 Fujino, Y. 679 Fukuda, M. 713 Fukui,H. 713 Fullard,R.J. 613 Fulton,A.B. 977 Fu,S.C.J. 331

Gaur, V. 947

Geroski, D.H. 145 Gery, I. 679, 789 Gesser, R.M. s1 Ghosh, S.K. 1065 Girsch, S.J. 839 Glick, A. s117 Godard, V. s151 Gondhowiardjo, T.D. 1001 Gordon, Y.J. 267 Goto, H. 909, 1009 Graham, D. 417 Granstein, R.D. 761 Grant-Bertacchini, D. 157 Green, K. 305 Green, M.T. s97 Gritz.D.C. 927, 1009 Grushkin-Lerner, L.S. 75 Guerra, A. 697

Hammer, R.H. 565 Hanna, R.B. 99 Hansen, R.M. 977 Harding, S.P. s177 Harris-Hooker, S. 1089 Hatfield, J.M. 823 Hauck, W.W. s105 Hayashi, K. s55, 381 Hazlett, L.D. 351 Hendricks, R.L. s47, 1015 Herbort, C.P. s171 Herman, D.C. 121 Heth, C.A. 1049 He, Y.-G. 851, 889 Hicks, D. 719 Hightower, K.R. 299 Hillery, M. s183 Hodos, W. 163 Hodson, S.A. 1113 Hoekzema, R. 1001 Holbach, L.M. s63 Holleschau, A.M. 221 Hollinger, F.B. s97 Hoogenboom, E.R. 601 Hooper, P. 363 Hsu, W. 547

Ifeanyi, F. 529 Igietseme, J. U. s81 Ikada, Y. 899 Ikeda, K. 61 Inada, K. 277 Inoue, Y. s159 Itoi, Motokazu 1 Itoi, Motozumi 1 Iwatsuru, M. 629

Jacobs, M.R. 557 Jacques, P.F. 751 Jager, M.J. s69 Johns, K.J. s117 Johnson, M. 373 Jones, D.B. s105 Jumblatt, J.E. 967

Kaleta-Michaels, S. 479 Kamm, R.D. 373 Kanter, M.Y. s75, 667 Kao, S. 547 Kaplan, H.J. 363, 1089 Kaufman, H.E. s105 Kaufman, P.L. 437 Kavlock, R.J. 601 Kawa, J.E. 1101 Kawano, Y.-I. 789 Kazami, N. s55 Keeting, P.E. 331 Kelley, C.G. 939 Kenyon, K.R. 381 Kijlstra, A. 169, 773, 1001 Kim, H.S. 313 Kinouchi, Y. s201 Kissner, D.M. 613 Kitada, S. 409 Kiuchi, Y. 817 Knisely, T.L. 761 Kobayashi, H. 899 Kodama, R. 1 Kotake, S. 679, 789 Koutsandrea, C.N. 249 Kowalski, R. 267 Kriho, V. 1165 Kroll, S.M. 479

La Vail, J.H. s23 Lam, S. 133 Langlois, M. s151 Larke, J.R. 1113 Lass, J.H. 557 Lausch.R.N. s31, s39 Laver.N. 339, 893 Lazarus, H.M. 557 Lee, D.A. 409 Lee, J.W. 629 Lee, V.H.L. 87, 231, 571 Lepple-Wienhues, A. 983 Lewis, D.E. s97 Liesegang, T.J. s111 Lieska, N. 1037, 1165 Li,L. 947 Li, Z.-I. 133 Lin, C. 331 Lin, M. 267 Lin, N. 19 Lin,S. 547 Lin, W.-L. 1059 Linden, J. 811 Lipman, R.D. 11 Liu, J.H.K. 547, 1175 Lo, W.-K. 1151 Lòpez-Briones, L.G. 731 Lorans, G. 585 Louiselle, I. 823 Luo, A.M. 231 Lütjen-Drecoll, E. 277 Lutty, G. 61 Lysz, T.W. 331

Mäepea, O. 703 Maertens, K. s131 Mahalak, S. M. 779, 1059 Maisel, H. 1037 Malecaze, F. 719 Malet, F. s189 Manabe, R. s55, 713 Maness, P. F. 1121 Mangini, N. J. 457 Margolis, J. W. 485, 871 Marshall, J. 513

Author index

Mathis, A. 719 Mathys, B. s151 Maudgal, P.C. s125, s139, s193 Maumenee, I.H. 241 McAvoy, J.W. 501 McCaleb, M.L. 339, 893 McCready, J. 299 McCulley, J.P. 851 McDonald, T.F. 305 McLeod, D.S. 61 McNeill, J. s15 McNellis, E.L. 399 Meade, L.B. s23 Mellerio, J. 513 Mercandetti, M. 339, 893 Miceli, M.V. 249 Michaelis, O.E. IV 339, 893 Miller, F. 1113 Mills, A. 1151 Mimura, Y. s201 Minasi, P. s159 Mirejovsky, D. 187 Mirshahi, M. 993 Mishima, H.K. 817 Mochizuki, M. 679 Monteith, C.A. 177 Montes, C. 927 Moon, M.M. 351 Morrow, F. 751 Myers, B. 267

Nadler, D. 751 Naito, T. s201 Natarajan, R. s1 Newell, C. K. 667 Niederkorn, J. Y. 889 Niesman, M. R. 249 Nilsson, S. F. E. 703 Nishigori, H. 629 Nitta, K. s201 Nugier, F. s151 Nunes-Cardozo, B. 773 Nussenblatt, R. B. 679

O'Brien, W.J. s143, s205 O'Day, D.M. s117 Oakes, J.E. s31, s39 Odom, J.V. 205 Oh, J.O. s159 Ohashi, Y. s55 Ohia, S.E. 967 Ong, B.-L. 1113 Openshaw, H. s15, s167

Palestine, A.G. 121 Parmigiani, C.M. 501 Parrillo, J.E. 121 Pastor, J.C. 697 Patel, A.S. 187 Pease,S. 381 Pels.L. 1001 Pepose, J.S. s87 Peracchia, C. 839 Perheentupa, J. 523 Pesonen, K. 523 Peyman, G.A. 249, 1031 Piguet, B. s171 Pittler, S.J. s63 Polansky, J.R. 437, 593 Porter, S.M. s177 Pouliquen, Y. 585 Power, W.J. s183

Prasad, A. 25 Punda-Polic, V. s205 Putilina, T. 113 Putman, S.C. 557

Qavi, H.B. s97 Quigley, H.A. 877

Raber, J. 679 Rafales, P. s151 Rafferty, N.S. 637 Ramachandran, S. 831 Ransdell, J.F. 601 Rao, N.A. 909, 927, 1009 Rathbun, W.B. 221 Raulais, D. 719 Razaghi, A. 993 Richard, M.C. s189 Richard, N.R. 739 Rich, L.F. 823 Rietveld, E. s125 Ritchi, M. s39 Robison, W.G.Jr 339, 893 Rodriguez, D.D. 187 Rohen, J.W. 437 Romanowski, E. 267 Roque, R.S. 1081 Roquemore, E. 313 Rosenbaum, J.T. 1137 Ross.J. 889 Rothova, A. 169 Rudner, X.L. 351

Sakamoto, S. 779 Santora D 267 Sasaki, H. 231, 571 Sasamoto, Y. 789 Sastry, J.S. 565 Sawai, S. 713 Schäfer, R. 983 Schichi, H. 1059 Schmidt, S.Y. 1049 Scholz, D.L. 637 Schremser, J.-L. 977 Scott, H.R. 1069 Scott, M.M. 1089 SeGall, G.K. s97 Sen, A.C. 1065 Sevanian, A. 909, 927 Shaffer, J.B. 919 Shahinfar, S. 47 Shao, D. 1165 Shapourifar-Tehrani, S. 409 Shearer, T.R. 657 Sheedlo, H.J. 947 Shepard, D. 751

Shearer, T.R. 657
Sheedlo, H.J. 947
Shepard, D. 751
Shichi, H. 779, 1141
Shiota, H. s201
Shivanandappa, T. 871
Shi, X.-P. 197
Shores, C.G. 1121
Singh, A. 351
Sivak, J.G. 177
Slagle, T. 305
Smith, D. 381
Smyth, R.J. 409
Spivack, J.G. s1
Srivatsa, G.S. 127
Stahl, F. 983
Stiemke, M.M. 145
Stilma, J.S. 169

Streeten, B.W. 99

Streilein, J.W. s69, s75, s81, 287 Streitman, J. 959 Stuart, D.D. 177 Suffredini, A.F. 121 Sugiyama, T. 779 Suir, E.P.E. s125 Sulsky, S.I. 751 Suttorp-Schulten, M.S.A. 773 Su, Y.-H. s39 Swamy, M.S. 213

Takayama, S. 1 Takemoto, L. 529, 865 Tarkkanen, A. 523 Tarraf, M. 993 Taylor, A. 11, 751 Taylor, J.L. s143, s205 Tervo.T. 523 Thillaye, B. 993 Thurau, S.R. 789 Tobias, B. 127 Trattler, W.B. 287 Trinkaus-Randall, V. 75 True Gabelt B'A. 437 Tse, D. 321 Tso, M.O.M. 47, 133 Tumpey, T.M. s47 Turner, J.E. 947 Tyler, N.K. 801

Ubels,J.L. 645 Ukety,T.O. s131 Uno,T. s55

Valyi-Nagy, T. s1 Van der Lelij, A. 169 van der Noen, H. 25 van Haeringen, N.J. 1001 Van Haren, M.A.C. 169 van Setten, G.-B. 523 Varma, S.D. 831 Verley, G. 1089 Vetter, J.C.M. 169 Vibbard, C.A. 761 Viinikka, L. 523

Wada, H. 713 Wagner, B.J. 485, 871 Walkenbach, R.J. 1129 Wallace, R.N. 99 Wallow, I.H.L. 437 Wang, N.P. 713 Wang, W. 87, 571 Warner, J. 513 Webb, R.A. s117 Weerheim, J.A. 177 Weiss, J.L. 739 Welch, M.H. 1075 Whiteley, H.E. 1069 Wickström, K. 463 Wiederholt, M. 983 Wiggert, B. 789 Wigham, T. 1113 Wilhelmus, K.R. s105 Wilkinson, J.L. 163 Willey, D.E. s15, s167 Williams, I. s167 Williams, M.A. 457 Williams, T.P. 977 Willner, U. 983 Wistow, G. 313 Wolosin, J.M. 537

Wroblewska, Z. s1 Wu, G.-S. 909, 927, 1009 Wu, W.-M. 565, 933 Wu, Y. 331

Yamazaki, M. 817 Yang, H.-Y. 1037, 1165 Yasumoti, T. 817 Ye, G.-S. 1129 Yeung, K.C. s31 Yin, J. 485 Yokoyama, T. 817 Yorio, T. 321 Yoshitoshi, T. 1141 Yousufzai, S. Y. K. 259 Yue, B. Y. J. T. 1015, 1101

Zaal, M.J.W. s125 Zeman, F.J. 601 Zhang, W. 1151 Zhang, Y. 259 Zhang, Z.W. 113 Zhu, H. 1151 Zografos, L. s171

Accommodation

ciliary muscle, ciliary nerves, panretinal photocoagulation, parasympathetic denervation, monkey 437

cornea, serotype, organ culture, rabbit 267

Aging

lens proteins, reverse-phase HPLC, a crystallin subunits, protein modifications, human 213

Aldehyde dehydrogenase

cornea, BCP 54, 5DS-polyacrylamide gel electrophoresis, isoelectric focusing, human 1001

Antibiotics

corneal epithelium, fluoroquinolones, in vitro, toxicity, rabbit 557

Aqueous humor

cyclic AMP, intraocular pressure, circadian rhythm, rabbit 1175 growth factors, vitreous humor, TGFB, cell growth 157 inflammation, polyamines, protein, leukocytes, surgical trauma, rabbit

lens, ascorbic acid, blood aqueous barrier, plasma, cataract, aging, human 751

onchocerciasis, autoimmune disease, retinal antigens, interleukin-6 169

Aqueous humor dynamics intraocular pressure, vasoactive intestinal polypeptide, pseudofacility, β-adrenoceptor, monkey 703

wash out, perfusion, outflow facility, bovine 373

Arachidonic acid

endothelin, iris, lens sphincter smooth muscle, rabbit 259 12 (S)-HETE, GC-MS, lens, chiral analysis, rat 331

Arrestin

S-antigen, 48K, immunolabeling, hypopigmentation, pearl mutant

Ascorbic acid

ciliary epithelium, membrane transport and permeability, Na+, ouabain, rabbit 197

lens, aqueous humor, blood aqueous barrier, plasma, cataract, aging,

retinal pigment epithelium, membrane transport and permeability, ouabain, dinitrophenol, bullfrog 959

experimental autoimmune uveoretinitis, retina, T cell receptor derived peptides, idiotypic immunity ('vaccination'), experimental allergic encephalomyelitis, retinal antigens, rat 789 onchocerciasis, aqueous humour, retinal antigens, interleukin-6 169 (See also Supplement)

Blood aqueous barrier

lens, aqueous humor, ascorbic acid, plasma, cataract, aging, human

uveitis, inflammation, endotoxin, lipopolysaccharide, fluorophotometry, human 121

Blood vessels

diabetes, retina, pericyte 'ghosts', mural cells, capillaries, diabetic retinopathy, diabetic rat models 339

experimental autoimmune uveitis, collagen, fibronectin, growth factors, TGF-β, retina, rat 1059

lectins, retina, iris, ciliary body, choriocapillaries, histochemistry, rats

receptors, histamine, retina, [3H]mepyramine, histamine H1-receptor, bovine 713

Calcium

calmodulin, lens, gap junctions, MIP26, cell communication, circular dichroism, amphiphilic peptides 839

inositol phosphates, histamine, ciliary epithelium, receptors, intracellular calcium, H-2 receptors, non-pigmented ciliary epithelium

lens, calcium-ATPase, lens epithelium, oxidants, hydrogen peroxide, selenite, rabbit 299

Calmodulin

calcium, lens, gap junctions, MIP26, cell communication, circular dichroism, amphiphilic peptides 839

Calpain

lens, cataract selenium, selenite cataract, E64, proteolysis, calcium, rat 657

ciliary processes, sodium-potassium-ATPase, organ culture, electron microscopy, human 277

lens, calpain, selenite cataract, E64, proteolysis, calcium, rat 657 lens, isocitrate, glucocorticoid, glutathione, glucose, lipidperoxide, chick embryo 629

lens protein, circular dichroism, fluorescence, bee venom, protein denaturation, human 1065

retina, retinal dysplasia, benzimidazole, fungicide, microphthalmia, fetus, rat 601

Cell membrane

retina, filipin, retinal dysplasia, freeze-fracture, membrane ultrastructure, canine 1069

Chemotaxis

experimental autoimmune uveitis, lipids, chemotaxis, docosahexaenoic acid, lipid peroxides, rat 1009

Ciliary body

basolateral membranes, ciliary epithelium, membrane purification, Ficoll 400 537

ciliary epithelium, immunocytochemistry, tissue culture, collagen type I + III, S-100 proteins 409

cyclic nucleotides, cyclic AMP, cervical ganglionectomy, adenylate cyclase stimulation/inhibition, rabbit 399

Ciliary epithelium

ascorbic acid, membrane transport and permeability, Na+, ouabain, rabbit 197

cytochrome P450, immunocytochemistry, phenobarbital,

3-methylcholanthrene isozymes, alkoxyresorufin O-dealkylase activities. ELISA, porcine 779 inositol phosphates, histamine, calcium, receptors, intracellular

calcium, H-2 receptors, non-pigmented ciliary epithelium 593 ion channels, Ca2+-dependent K+ channel, non-pigmented cells, barium blockade, patch-clamp, human 731

Ciliary muscle

accommodation, ciliary nerves, panretinal photocoagulation, parasympathetic denervation, monkey 437

Ciliary nerves

accommodation, ciliary muscle, panretinal photocoagulation, parasympathetic denervation, monkey 437

Ciliary processes

carbonic anhydrase, sodium-potassium-ATPase, organ culture, electron microscopy, human 27 marijuana, water-soluble marijuana-derived material (MDM), ultrastructure, primate, owl monkey, squirrel monkey 305

experimental autoimmune uveitis, fibronectin, blood vessels, growth factors, TGF-β, retina, rat 1059 glaucoma, optic nerve, elastin, sclera, human, monkey 877

Contact lens

protein adsorption, hydration, water permeability, oxygen permeability, differential scanning calorimetry, lens dehydration, hydrogel lenses 187

adenovirus, serotype, organ culture, rabbit 267 aldehyde dehydrogenase, BCP 54, 5DS-polyacrylamide gel electrophoresis, isoelectric focusing, human 1001

humidity, deswelling function, tear fluid, evaporation, endothelial pump, human 493

immune response, immune complexes, keratocyte, phagocytosis, rabbit

P. aeruginosa, piliation, proteases, adhesion, infectivity, mouse 351 tumor necrosis factor, interleukins, receptors, interferon, keratoconus, cultured fibroblasts 585

Corneal endothelium

retinal pigment epithelium, superoxide dismutase, manganoussuperoxide dismutase, bovine 919

sodium-potassium-ATPase, development, morphology, hydration

wound healing, growth factors, epidermal growth factor, sodium hyaluronate, cat 823

Corneal epithelium

antibiotics, fluoroquinolones, in vitro, toxicity, rabbit 557

epithelial cell culture, collagen, extracellular matrix, ocular surface, human 851

keratoprosthesis, adhesion and proliferation, hydrogel, fibronectin, poly vinyl alcohol 899

tears, fluorescein, artificial tears, preservatives, benzalkonium chloride, thimerosal, rabbit 645

wound healing, glycoprotein, proteoglycan, integrin, syndecan, keratectomy, cell surface receptors 75

Corneal preservation

air/liquid culture, cornea, tissue culture, epithelium, microscopy, human 739

UW solution, M-K, deturgescence, rabbit 1129

Corneal transplantation

Langerhans cells, immune response, Class I MHC, immune privilege, transplantation immunology, rat 889

Corticosteroids

drug delivery, loteprednol etabonate, soft-drugs, metabolism, ocular distribution, rabbit $933\,$

Cyclic nucleotides

ciliary body, cyclic AMP, cervical ganglionectomy, rabbit 399 aqueous humor, intraocular pressure, circadian rhythm, rabbit 1175 intraocular pressure, cyclic AMP phosphodiesterase inhibitor, griseolic acid (POM-ester), cAMP, topical application, rabbit 817

Cytochrome P450

ciliary epithelium, immunocytochemistry, phenobarbital, 3-methylcholanthrene isozymes, alkoxyresorufin O-dealkylase activities, ELISA, porcine 779

Cytokines

receptors, inflammation, interleukin-1, uveitis, iritis, rabbits 1137

Cytomegalovirus

retinitis, euthymic, MCMV, supraciliary space, animal model, BALB/c mouse 667

Cytoskeleton

lens, developmental biology, intermediate filament-associated protein (IFAP), differentiation 1165

lens, fiber cell, monoclonal antibodies, western blots 471

lens, in vitro, beaded-chain filament, protein purification, filament assembly, chicken 1037

lens, lens proteins, α A-crystallin, fiber cell, monoclonal antibodies, immunocytochemistry, bovine 417

lens epithelium, growth and development, actin (myosin) polygonal arrays, zonules 637

Developmental biology

cytoskeleton, lens, intermediate filament-associated protein (IFAP), differentiation 1165

extracellular matrix, retinal pigment epithelium, cell lines, cell culture, differentiation, human 1089

Diahetes

blood vessels, retina, pericyte 'ghosts', mural cells, capillaries, diabetic retinopathy, diabetic rat models 339

Drug delivery

corticosteroids, loteprednol etabonate, soft-drugs, metabolism, ocular distribution, rabbit 933

glaucoma, corneal drug penetration, 5-fluorouracil, corneal drug metabolism, prodrugs, glaucoma filtration surgery 87

lipophilicity, conjunctival drug penetration, corneal drug penetration, beta blockers, beta receptors 571

timolol, ocular drug interactions, combination drug therapy, multiple drug therapy, ocular drug pharmacokinetics, precorneal drug clearance, rabbit 231

Elastin

glaucoma, optic nerve, collagen, sclera, human, monkey 877

lens, coated vesicles, electron microscopy, WGA-HRP, receptormediated endocytosis, cytochemistry, rat 1151

Endothelin

iris, arachidonic acid, lens sphincter smooth muscle, rabbit 259

Epikeratoplasty

visual performance tests, aphakia, intraocular lens, contact lens, contrast sensitivity, glare, human 939

Experimental autoimmune uveitis

collagen, fibronectin, blood vessels, growth factors, TGF- β , retina, rat 1059

immune response, immune privilege, interferon, delayed hypersensitivity, mouse 287

inflammation, histochemical, superoxide, polymorphonuclear leukocyte, rats 927

lipids, chemotactic, chemotaxis, docosahexaenoic acid, lipid peroxides, rat 1009

oxidative damage, luminol amplified chemiluminescence, superoxide anion, hydroxyl radicals, phagocyte-mediated oxygen radicals, rat 909 retinal S-antigen, FK506, immunosuppresive agent, primate 679 (See also Supplement)

Experimental autoimmune uveoretinitis

autoimmune disease, retina, T cell receptor derived peptides, idiotypic immunity ('vaccination'), experimental allergic encephalomyelitis, retinal antigens, rat 789

Extracellular matrix

retinal pigment epithelium, developmental biology, cell lines, cell culture, differentiation, human 1089

Eye growth

myopia, intraocular pressure, ocular development, chicks 163

Fibrin

vitreous, retina, retinal cryoapplication, fibrinolysis, experimental vitreous hemorrhage, fibrin degradation products, indomethacin 697

Fibronectin

experimental autoimmune uveitis, collagen, blood vessels, growth factors, $TGF-\beta$, retina, rat 1059 laminin, lens capsule, extracellular matrix, lens development 501

laminin, lens capsule, extracellular matrix, lens development 501 wound healing, plasmin, plasminogen activator, epithelial defects, corneal epithelium, amiloride, rabbit 381

Filipin

retina, cell membrane, retinal dysplasia, freeze-fracture, membrane ultrastructure, canine 1069

FK506

experimental autoimmune uveitis, retinal S-antigen, immunosuppresive agent, primate 679

Fluorescein

tears, corneal epithelium, artificial tears, preservatives, benzalkonium chloride, thimerosal, rabbit 645

Gap junctions

calcium, calmodulin, gap junctions, MIP26, cell communication, circular dichroism, amphiphilic peptides 839 lens, freeze-fracturing, ultrathin section, human foetus 1

Glaucoma

drug delivery, corneal drug penetration, 5-fluorouracil, corneal drug metabolism, prodrugs, glaucoma filtration surgery 87 flicker perimetry, ocular hypertension, static perimetry, human 205 optic nerve, collagen, elastin, sclera, human, monkey 877

Glutathione

lens, thermal inactivation, glutathione peroxidase/reductase, evolution, degradation, temperature, primate 221

Glycoprotein

corneal epithelium, wound healing, proteoglycan, integrin, syndecan, keratectomy, cell surface receptors 75

Glycosaminoglycans

retinitis pigmentosa, retinal pigment epithelium, mucopolysaccharidases, cell culture, human 241

Growth and development

lens epithelium, cytoskeleton, actin (myosin) polygonal arrays, zonules 637 myopia, intraocular pressure, eye growth, chicks 163

Growth factors

aqueous humor, vitreous humor, TGFB, cell growth 157 corneal endothelium, wound healing, epidermal growth factor, sodium hyaluronate, cat 823 experimental autoimmune uveitis, collagen, fibronectin, blood vessels,

TGF-B, retina, rat 1059

iris-ciliary body, transforming growth factor-beta, immunosuppression, mouse 761

photoreceptors, retina, immunohistochemistry, transforming growth factor- β , retinal detachment, diabetic retinopathy 61 retinopathy, vitreous, fibroblast growth factor, epiretinal membranes,

retinopatny, vitreous, tibrobiast grown factor, epiretinal membranes, polyclonal/monoclonal antibodies, immunocytochemistry, human 719 tear fluid, epidermal growth factor, reflex tearing, wound healing, ocular disease, human 523

Herpes simplex virus:

see supplement to Volume 10 'International Conference on Herpetic Eye Diseases

Histamine

inositol phosphates, calcium, ciliary epithelium, receptors, intracellular calcium, H-2 receptors, non-pigmented ciliary epithelium 593 receptors, retina, blood vessels, [3H]mepyramine, histamine H1-receptor, bovine 713

Hydrogen peroxide

lens, cataract, glutathione, oxygen radicals 831

Immune response

cornea, immune complexes, keratocyte, phagocytosis, rabbit 773 corneal transplantation, Langerhans cells, Class I MHC, immune privilege, transplantation immunology, rat 889 experimental autoimmune uveitis, immune privilege, interferon,

delayed hypersensitivity, mouse 287

iris, retina, lymphocyte, choroid, inhibitor, immunosuppressive, mouse 363

Immunoglobulins

tumors, immunoglobulin gene, ocular adnexal neoplasm, bcl-1, bcl-2, c-myc, human 547

Immunosuppressive factors

vitreous, porcine eye, TGF-B, lymphoproliferation, CD4/8, ILZR, rat splenocytes 1141

Inflammation

aqueous humor, polyamines, protein, leukocytes, surgical trauma, rabbit 463

experimental autoimmune uveitis, histochemical, superoxide,

polymorphonuclear leukocyte, rats 927

platelet-activating factor, platelet-activating factor antagonist, vascular permeability, endotoxin, cornea, uveitis, rabbit 19

platelet-activating factor, retina, photocoagulation, laser, vascular permeability, rabbit 1031

receptors, cytokines, interleukin-1, uveitis, iritis, rabbits 1137 uveitis, blood-aqueous barrier, endotoxin, lipopolysaccharide, fluorophotometry, human 121

(See also Supplement) Inositol phosphates

histamine, calcium, ciliary epithelium, receptors, intracellular calcium, H-2 receptors, non-pigmented ciliary epithelium 593

Interferor

tumor necrosis factor, cornea, interleukins, receptors, keratoconus, cultured fibroblasts $585\,$

Interleukins

tumor necrosis factor, cornea, receptors, interferon, keratoconus, cultured fibroblasts 585

Intraocular pressure

aqueous humor, cyclic AMP, circadian rhythm, rabbit 1175 cyclic nucleotides, cyclic AMP phosphodiesterase inhibitor, griseolic acid (POM-ester), cAMP, topical application, rabbit 817 myopia, ocular development, eye growth, chicks 163 vasoactive intestinal polypeptide, aqueous humor dynamics, pseudofacility, β-adrenoceptor, monkey 703

Ion channels

ciliary epithelium, Ca2+-dependent K+ channel, non-pigmented cells, barium blockade, patch-clamp, human 731

Iris

endothelin, arachidonic acid, lens sphincter smooth muscle, rabbit 259 immune response, retina, lymphocyte, choroid, inhibitor, immunosuppressive, mouse 363

Iris-ciliary body

growth factors transforming growth factor-beta, immunosuppression,

mouse 761

prostaglandins, receptors, prejunctional, adrenergic pharmacology, human 967

trabecular meshwork, ciliary muscle, endothelin, carbachol, nifedipine, Ni2 + boyine 983

Keratocytes

membrane proteins, corneal stromal cells, amino acid sequencing, peptide antibody, human 35

Keratoprosthesis

corneal epithelium, adhesion and proliferation, hydrogel, fibronectin, poly vinyl alcohol 899

Lacrimal system

meibomian glands, keratin proteins, meibomian duct epithelium, keratinization, human 1113 isolated acini, exocrine gland, cellular dissociation, lacrimal

morphology 1075 Laminin

fibronectin, lens capsule, extracellular matrix, lens development 501

Langerhans cells corneal transplantation, immune response, Class I MHC, immune privilege, transplantation immunology, rat 889

Lectins

blood vessels, retina, iris, ciliary body, choriocapillaries, histochemistry, rats 801

Len

aqueous humor, ascorbic acid, blood aqueous barrier, plasma, cataract, aging, human 751

calcium, calcium-ATPase, lens epithelium, oxidants, hydrogen peroxide, selenite, rabbit 299

calcium, calmodulin, gap junctions, MIP26, cell communication, circular dichroism, amphiphilic peptides 839

calpain, cataract selenium, selenite cataract, E64, proteolysis, calcium, rat 657

cataract, isocitrate, glucocorticoid, glutathione, glucose, lipidperoxide, chick embryo 629

cytoskeleton, developmental biology, intermediate filament-associated protein (IFAP), differentiation 1165 cytoskeleton fiber cell based filaments, monoclonal antibodies

cytoskeleton, fiber cell, beaded filaments, monoclonal antibodies, western blots 471

cytoskeleton, in vitro, beaded-chain filament, protein purification, filament assembly, chicken 1037

cytoskeleton, lens proteins, α A-crystallin, cytoskeleton, monoclonal antibodies, immunocytochemistry, bovine 417

endocytosis, coated vesicles, electron microscopy, WGA-HRP, receptor-mediated endocytosis, cytochemistry, rat 1151

gap junctions, freeze-fracturing, ultrathin section, human foetus 1 glutathione, thermal inactivation, glutathione peroxidase/reductase, evolution, degradation, temperature, primate 221

hydrogen peroxide, cataract, glutathione, oxygen radicals 831 lens proteins, proteinase, multicatalytic proteinase complex,

lens proteins, proteinase, multicatalytic proteinase complex. proteasome, sequence, subunits, bovine 871

membrane proteins, deamidation, intrinsic protein, lens membrane, bovine 865

myo-inositol, membrane transport and permeability, L-buthionine sulfoximine, glutathione, aldose reductase, lens epithelial cells, bovine 321

proteinase, multicatalytic proteinase complex, subunit, radiolabel, bovine 485

ultraviolet irradiation, UV-B, cataract, focal length, scatter, bovine 177
Lens capsule

laminin, fibronectin, extracellular matrix, lens development 501

Lens epithelium cytoskeleton, growth and development, actin (myosin) polygonal

arrays, zonules 637 proteases, calpain, proteolysis, calcium activated protease, bovine 11

Lens proteins

β B1-crystallin, glycan, peptide sequence, subunit size, birds 313 cataract, circular dichroism, fluorescence, bee venom, protein denaturation, human 1065

aging, reverse-phase HPLC, α crystallin subunits, protein modifications, human 213

Subject index

cyanogen bromide fragment, alpha-A crystallin, bovine 529

lens, cytoskeleton, a A-crystallin, fiber cell, monoclonal antibodies, immunocytochemistry, bovine 417

lens, proteinase, multicatalytic proteinase complex, proteasome,

sequence, subunits, bovine 871

sonication, α-crystallin, aggregation, molecular mass, energy transfer, conformation 113

Light damage

photoreceptors, retina, necrosis, apoptosis 47 photoreceptors, retinal degeneration, transducin, retina, transducin

(alpha subunit), S-antigen (arrestin), rats 993

retina, retinal pigment epithelium, desferrioxamine, iron chelator, lipid peroxidation, ascorbic acid, rat 133

Lipids

experimental autoimmune uveitis, chemotactic, chemotaxis, docosahexaenoic acid, lipid peroxides, rat 1009

ciliary processes, water-soluble marijuana-derived material (MDM), ultrastructure, primate, owl monkey, squirrel monkey 305

Meibomian glands

lacrimal system, keratin proteins, meibomian duct epithelium, keratinization, human 1113

Melanoma

bromodeoxyuridine, human choroidal melanoma cells, cell cycling, mitoses, prognosis, tumors 479

Membrane proteins

keratocytes, corneal stromal cells, amino acid sequencing, peptide antibody, human 35

lens, deamidation, intrinsic protein, lens membrane, bovine 865

Membrane transport and permeability

ciliary epithelium, ascorbic acid, Na+, ouabain, rabbit 197 myo-inositol, lens, L-buthionine sulfoximine, glutathione, aldose reductase, lens epithelial cells, bovine 321 retinal pigment epithelium, ascorbic acid, ouabain, dinitrophenol,

bullfrog 959 retinal pigment epithelium, diurnal, rabbit 513

Mydriasis

soft ester analogs of atropine, anticholinergic mydriatics, short acting mydriatics, rabbit 565

Myo-inositol

membrane transport and permeability, lens, L-buthionine sulfoximine, glutathione, aldose reductase, lens epithelial cells, bovine 321

intraocular pressure, ocular development, eye growth, chicks 163

Nuclear magnetic resonance (NMR)

outer tissues, metabolism, esterase, rabbit 127

Onchocerciasis

aqueous humour, autoimmune disease, retinal antigens, interleukin-6

Optic nerve

glaucoma, collagen, elastin, sclera, human, monkey 877 tyrosine protein kinase, retina, optic tectum, retinal ganglion cells, growth cones 1121

Oxidative damage

experimental autoimmune uveitis, luminol amplified chemiluminescence, superoxide anion, hydroxyl radicals, phagocytemediated oxygen radicals, rat 909

P. aeruginosa

cornea, piliation, proteases, adhesion, infectivity, mouse 351

Panretinal photocoagulation accommodation, ciliary muscle, ciliary nerves, parasympathetic denervation, monkey 437

retinal pigment epithelium, rod outer segments, phosphorylation, twodimensional gel electrophoresis, LE rats 1049

trabecular meshwork, tissue culture, immunostaining, A/J mouse 1015

retinal pigment epithelium, macrophage, transplantation, Royal College of Surgeons (RCS) rat 947 growth factors, retina, immunohistochemistry, transforming growth

factor-β, retinal detachment, diabetic retinopathy 61

light damage, retina, necrosis, apoptosis 47 light damage, retinal degeneration, transducin, retina, transducin (alpha subunit), S-antigen (arrestin), rats 993

wound healing, fibronectin, plasminogen activator, epithelial defects, corneal epithelium, amiloride, rabbit 381

Platelet-activating factor

inflammation, platelet-activating factor antagonist, vascular permeability, endotoxin, cornea, uveitis, rabbit 19 retina, inflammation, photocoagulation, laser, vascular permeability, rabbit 1031

Prostaglandins

receptors, iris-ciliary body, prejunctional, adrenergic pharmacology, human 967

Proteinases

lens epithelium, calpain, proteolysis, calcium activated protease, bovine 11 lens, lens proteins, multicatalytic proteinase complex, proteasome, sequence, subunits, bovine 871

lens, multicatalytic proteinase complex, subunit, radiolabel, bovine 485

Proteoglycan corneal epithelium, wound healing, glycoprotein, integrin, syndecan, keratectomy, cell surface receptors 75

Receptors

histamine, retina, blood vessels, [3H]mepyramine, histamine H1-receptor,

inflammation, cytokines, interleukin-1, uveitis, iritis, rabbits 1137 inositol phosphates, histamine, calcium, receptors, intracellular calcium, H-2 receptors, non-pigmented ciliary epithelium 593

prostaglandins, iris-ciliary body, prejunctional, adrenergic pharmacology, human 967

tumor necrosis factor, cornea, interleukins, interferon, keratoconus, cultured fibroblasts 585

vasopressin, retinal pigment epithelium, human 811

cataract, retinal dysplasia, benzimidazole, fungicide, microphthalmia, fetus, rat 601

diabetes, blood vessels, pericyte 'ghosts', mural cells, capillaries, diabetic retinopathy, diabetic rat models 339

experimental autoimmune uveoretinitis, autoimmune disease, T cell receptor derived peptides, idiotypic immunity ('vaccination'), experimental allergic encephalomyelitis, retinal antigens, rat 789

filipin, cell membrane, retinal dysplasia, freeze-fracture, membrane ultrastructure, canine 1069

iris, immune response, lymphocyte, choroid, inhibitor, immunosuppressive,

light damage, photoreceptors, necrosis, apoptosis 47

photoreceptors, growth factors, immunohistochemistry, transforming growth factor-β, retinal detachment, diabetic retinopathy 61

platelet-activating factor, inflammation, photocoagulation, laser, vascular permeability, rabbit 1031

receptors, histamine, blood vessels, [3H]mepyramine, histamine H1-receptor, bovine 713

retinal pigment epithelium, light damage, desferrioxamine, iron chelator, lipid peroxidation, ascorbic acid, rat 133

rhodopsin, infant, sensitivity, human 977

tyrosine protein kinase, optic nerve, optic tectum, retinal ganglion cells, growth cones 1121

vitreous, fibrin, retinal cryoapplication, fibrinolysis, experimental vitreous hemorrhage, fibrin degradation products, indomethacin 697

Retinal degeneration

photoreceptors, light damage, transducin, retina, transducin (alpha subunit), S-antigen (arrestin), rats 993

Retinal pigment epithelium

ascorbic acid, membrane transport and permeability, ouabain, dinitrophenol, bullfrog 959

cell culture, transepithelial electrical resistance, rat 1081

corneal endothelium, superoxide dismutase, manganous-superoxide dismutase, bovine 919

extracellular matrix, developmental biology, cell lines, cell culture, differentiation, human 1089

glycosaminoglycans, retinitis pigmentosa, mucopolysaccharidases, cell culture, human 241

membrane transport and permeability, diurnal, rabbit 513

phagocytosis, rod outer segments, phosphorylation, two-dimensional gel electrophoresis, LE rats 1049

photoreceptor, macrophage, transplantation, Royal College of Surgeons (RCS) rat 947

retina, light damage, desferrioxamine, iron chelator, lipid peroxidation, ascorbic acid, rat 133 retinopathy, ciprofloxacin, dexamethasone, proliferative

vitreoretinopathy, endophthalmitis, human 249

Retinal S-antigen

experimental autoimmune uveitis, FK506, immunosuppresive agent, primate 679

arrestin, 48K, immunolabeling, hypopigmentation, pearl mutant mouse 457

Retinitis

cytomegalovirus, euthymic, MCMV, supraciliary space, animal model, BALB/c mouse 667

Retinitis pigmentosa

glycosaminoglycans, retinal pigment epithelium, mucopolysaccharidases, cell culture, human 241

Retinopathy

growth factors, vitreous, fibroblast growth factor, epiretinal membranes, polyclonal/monoclonal antibodies, immunocytochemistry,

retinal pigment epithelium, ciprofloxacin, dexamethasone, proliferative vitreoretinopathy, endophthalmitis, human 249

Rhodopsin

retina, infant, sensitivity, human 977

Rod outer segments

retinal pigment epithelium, phagocytosis, phosphorylation, twodimensional gel electrophoresis, LE rats 1049

Sodium-potassium-ATPase

ciliary processes, carbonic anhydrase, organ culture, electron microscopy, human 277 corneal endothelium, development, morphology, hydration 145

Superoxide dismutase

retinal pigment epithelium, corneal endothelium, manganous-superoxide dismutase, bovine 919

Tears

growth factors, epidermal growth factor, reflex tearing, wound healing, ocular disease, human 523

tear specific prealbumin sub-forms, isoelectric focusing, FPLC, HPLC 613

corneal epithelium, fluorescein, artificial tears, preservatives, benzalkonium chloride, thimerosal, rabbit 645

cystatin, cysteine proteinase 25

drug delivery, ocular drug interactions, combination drug therapy, multiple drug therapy, ocular drug pharmacokinetics, precorneal drug clearance, rabbit 231

Trabecular meshwork

iris-ciliary body, ciliary muscle, endothelin, carbachol, nifedipine, Ni2 bovine 983 LDL receptor, cell culture, scavenger receptor 1101

phagocytosis, tissue culture, immunostaining, A/J mouse 1015

Transducin

photoreceptors, light damage, retinal degeneration, retina, transducin (alpha subunit), S-antigen (arrestin), rats 993

Tumor necrosis factor

cornea, interleukins, receptors, interferon, keratoconus, cultured fibroblasts 585

Tumors

immunoglobulins, immunoglobulin gene, ocular adnexal neoplasm, bcl-1, bcl-2, c-mvc, human 547

Tyrosine protein kinase

optic nerve, retina, optic tectum, retinal ganglion cells, growth cones 1121

Ultraviolet irradiation

lens, UV-B, cataract, focal length, scatter, bovine 177

Uveitis

blood-aqueous barrier, inflammation, endotoxin, lipopolysaccharide, fluorophotometry, human 121

Vasoactive intestinal polypeptide

intraocular pressure, aqueous humor dynamics, pseudofacility, \(\beta\)adrenoceptor, monkey 703

Visual performance tests

epikeratoplasty, aphakia, intraocular lens, contact lens, contrast sensitivity, glare, human 939

growth factors, retinopathy, fibroblast growth factor, epiretinal membranes, polyclonal/monoclonal antibodies, immunocytochemistry, human 719

immunosuppressive factors, porcine eye, TGF-B, lymphoproliferation, CD4/8, ILZR, rat splenocytes 1141

retina, fibrin, retinal cryoapplication, fibrinolysis, experimental vitreous hemorrhage, fibrin degradation products, indomethacin 697 growth factors, aqueous humor, TGFB, cell growth 157 zonules, rotary shadowing, elastic system microfibrils, ligamentum

nuchae, human, bovine 99

Wound healing

corneal endothelium, growth factors, epidermal growth factor, sodium hyaluronate, cat 823

corneal epithelium, glycoprotein, proteoglycan, integrin, syndecan, keratectomy, cell surface receptors 75

fibronectin, plasmin, plasminogen activator, epithelial defects, corneal epithelium, amiloride, rabbit 381

Zonules

vitreous humor, rotary shadowing, elastic system microfibrils, ligamentum nuchae, human, bovine 99